

Ad MA MAN Detact technique

K-4

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2229

Author : Kumanin, K.G., Kapustica, T.P.

Title : Determination of the Depth of the Matte Layer of Ground Glass by Polishing

TO THE PROPERTY OF THE PROPERT

to a Wedge.

Orig Pub : Sb. statey lemmagr. in the toetholy mekham. I optiki, 1954, No 11, 42-51

Abstract : No abstract

Card : 1/1

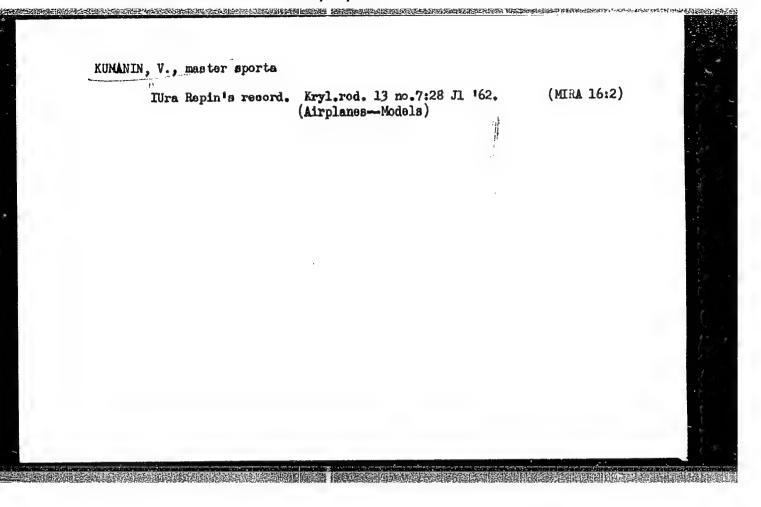
KUMANIN, K.G., prof., red.; GORDON, G.G., inzh., red.; ANIKINA, M.S., red. izd-va; ZUDAKIN, I.M., tekhn. red.

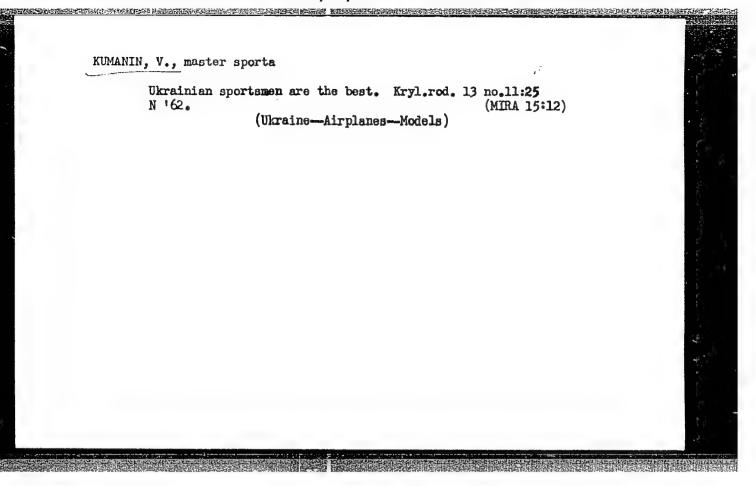
[Shaping of optical surfaces] Formoobrazovanie opticheskikh poverkhnostei; sbornik statei. Moskva, Oborongiz, 1962. 431 p. (MIRA 15:7)

(Grinding and polishing) (Glass, Optical)

KUMANIN, Mikhail Fedorovich, general-leytenant; MILYUTIN, V.I., red.; MUKHANOVA, M.D., tekhn. red.

[We are sending the ships to sea]Otpravliaem v pokhod korabli.
Moskva, Voenizdat, 1962. 99 p. (MIRA 16:3)
(Black Sea--World War, 1939-1945--Naval operations, Russian)





KumANIN, U. I AID Hr. 984-2 6 June

REFINEMENT OF Cr-Mo-V STEEL BY CERIUM (USSR)

Trusov, L. P., and V. I. Kumanin. Liteynoye proizvodstvo, no. 4, Apr 1963, S/128/63/000/004/002/004

The effect of cerium on the properties of a perlitic heat-resistant steel for service at 580°C and 240 at has been investigated at the Central Scientific Research Institute of Technology and Machinery. Cerium was added as mishmetal (50% Ce, 25% La, 15% Nd, and 10% other rare-earth metals) either in furnace or ladle. It was found that 0.20% Ce decreased the total sulfur content, made the sulfide distribution more uniform, and reduced nonmetallic impurities by 30-45% and oxygen content by more uniform, and reduced nonmetallic impurities, the steel was annealed at 1080-1100°C than 50%. For tests of mechanical properties, the steel was annealed at 1080-1100°C for 2 hrs, aged at 740-750°C for 5 hrs, and air cooled. The addition of 0.20% Ce was found to increase the yield strength and tensile strength at 580°C from 38.2 to 41.5-42.1 kg/mm² and from 43.5 to 46-46.7 kg/mm², respectively. However, the highest notch toughness at room temperature, 13.2-16.2 kgm/cm², was obtained at 0.50-0.10% cerium. Also, the longest rupture life, 1255 or 363 hrs,

Card 1/2

AID Nr. 98%-2 6 June

REFINEMENT OF Cr-No-V SEEL [Cont'd]

5/128/63/000/004/002/004

at 500°C under a stress of 20 kg/mm² was obtained with 0.05% cerium added in furnace or in ladle, respectively. In both cases the fracture was intergranular, while nonmodified steel had a transgranular fracture. The creep strength at 530°C and a creep rate of 10^{-5} % per hr was found to be 7 kg/mm², compared with 6 kg/mm² for the nonmodified steel. Oxidation resistance of the cerium-modified steels at 600, 650, and 700°C was found to be lower than that of the unmodified metal. [AZ]

Card 2/2

EWT(m)/T/EWP(t)/ETI IJP(c) JD L 41015-66 SOURCE CODE: UR/0148/66/000/003/0127/0131 ACC NR: AP6021707 43B AUTHOR: Blanter, M. Ye; Kumanin, V. I. ORG: All-Union Correspondence Machine Building Institute (Vsesoyuznyy zaochnyy mashinostroitel'nyy institut) TITLE: Effect of recrystallization on persistence of structural defects in deformed austenite SOURCE: IVUZ. Chernaya metallurgiya, no. 3, 1966, 127-131 TOPIC TAGS: austenitic alloy, metal recrystallization, lattice defect, austenite transformation / N23G3 austenitic alloy ABSTRACT: To clarify the question whether recrystallization may, to one extent or another, preserve the structural defects induced in a material during its deformation, the authors investigated this effect for the N23G3 austenitic alldy (0.04% C, 23.0% Ni, 3.11% Mn, remainder Fe), following is annealing at 850°C and rolling at 200°C with 10, 20, 30, 40, 50 and 60% plastic deformation. After the deformation, the specimens (10x10x3 mm) were heated in a lead bath at 650, 700 and 750°C for from 15 sec to 2 hr, with subsequent quenching. To accomplish 7 - transformation, this was followed by sharp cooling to -196°C with subsequent slow UDC: 669.24'74:620.183 Card 1/3

L 11015-66

ACC NR: AP6021707

heating (10°C/hr) to room temperature. The degree of structural imperfection of the alloy was estimated according to the changes in the physical broadening of X-ray line (311) and the microhardness of the recrystallized and nonrecrystallized grains. The amount of austenite and martensite in the alloy was estimated according to the ratio between the integral intensities of the lines (111) and (110) . The higher the degree DPD of plastic deformation is, the more complete is the degree $\beta_{\rm cr}$ of recrystallization at the moment of abrupt decrease in the number of defects (Fig. 1). Thus, following DPD = 30% and subsequent heating at 700°C, $\beta_{\rm cr}$

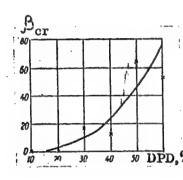


Fig. 1. Effect of degree of plastic deformation DPD on the intensity of recrystallization at the moment of the onset of a sharp decrease in the number of defects

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ACC NR: AP6021707

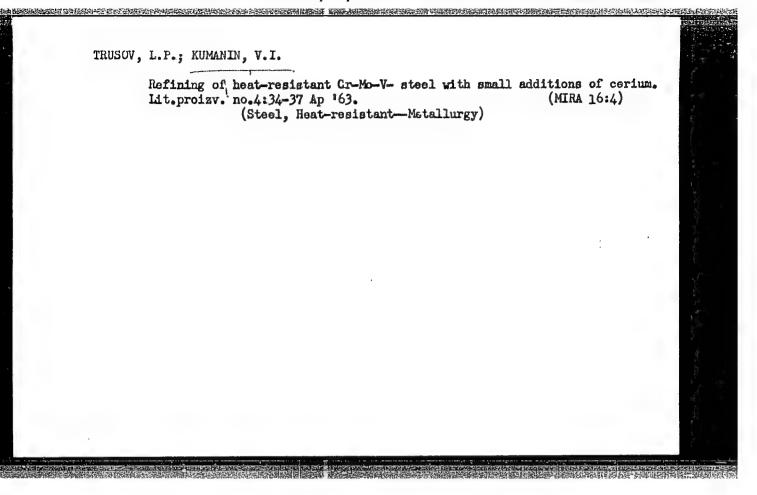
decreases by 30% compared with $\beta_{\rm def}$, and the microhardness of the first recrystallized grains is $102~{\rm kg/mm^2}$, compared with $120~{\rm kg/mm^2}$ when DPD = 50%. This indicates a partial redistribution and disappearance of the defects in the course of polygonization even prior to the onset of recrystallization. The intensity of β - ∞ transformation is affected by the DPD of the austenite. When DPD = 60% the austenite undergoes stabilization, but when DPD = 40 and 20%, it undergoes destabilization; neither process, however, is complete at the end of recrystallization, thus providing yet another and highly significant proof of the persistence of part of defects in completely recrystallized material. Orig. art. has: 3 figures.

SUB CODE: 11, 20, 13/ SUBM DATE: 24Jun65/ ORIG REF: 008/ OTH REF: 001

Card 3/3 hs

ABRAMOV, V.V., doktor tekhn. nauk, prof.; ANTIKAYN, P.A., kand. tekhn. nauk, retsenzent; KUMANIN, V.I., inzh., red.; KOZLOV, A.P., red. izd-va; MODEL!, B.I., tekhn. red.; DEMKINA, N.F., tekhn. red.

[Residual stresses and deformations in metals; calculations by the differentiation method] Ostatochnye napriazheniia i deformatsii v metallakh; raschety metodom raschleneniia tela. Moskva, Mashgiz, 1963. 354 p. (MIRA 16:8) (Strains and stresses) (Metals—Testing)



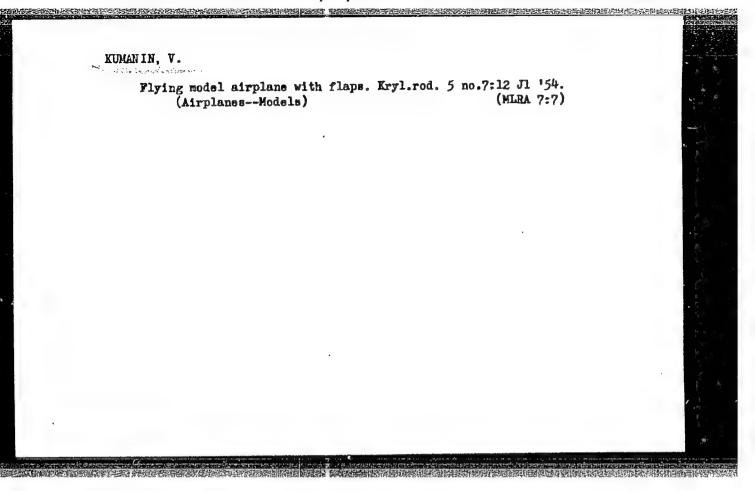
VCLEOV, Yu.V.; VOLKOVA, Z.A.; KAYGOROPTSEV, L.M.; BRASLAVSKIY, V.M., kand. tekhn. nauk, retsenzent; KUMANIN, V.I., inzh., red.

[Durability of machines operating in an abrasive medium]
Dolgovechnost' mashin, rabotaiushchikh v abrazivnoi srede. Moskva, Izd-vo "Mashinostroenie," 1964. 114 p.

(MIRA 17:6)

Flying wing rubberband-pewered high-speed plane model. Kryl.rod. 4 ne.7:
(MEMA 6:7)
13-14 Jl '53.

(Airplanes--Models)



KUMMAIN, V.

AID P - 482

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 11/15

Authors : Kumanin, V. and Ivanov, A.

Title : Pupils' Competition for Better Flying Models

Periodical: Kryl. rod., 9, 16, S 1954

Abstract : Remarks concerning the forthcoming aviation model

competition.

Institution: None

Submitted : No date

KUMANIN, V.

AID P - 1079

Subject

: USSR/Aeronautics

Card 1/1

Pub. 58 - 9/19

Authors

Kumanin, V., and others

Title

More attention to the sport of aircraft modeling.

(A letter to the editor)

Periodical

: Kryl. rod., 12, 16, D 1954

Abstract

This is a complaint that aircraft modelers do not get enough attention from the Central Committee of the DOSAĀF. The authors give reasons why this attention

should be given and suggest improvements.

Institution: DOSAAF

Submitted

: No date

KUMANIN, V.

AID P - 1269

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 13/15

Author : Kumanin, V.

Title : High speed rubber powered model

Periodical: Kryl. rod., 2, 18-20, F 1955

Abstract : This description gives specifications of a model aircraft.

In particular the author discusses: 1. the choice of the weight and dimensions of the model; 2. its design; 3. the

selection of the power unit; 4. flying adjustments.

Diagrams.

Institution: None

Submitted : No date

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520001-5 1986年1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年

KUMANIN, V.

AID P - 5518

Subject

: USSR/Aeronautics - Model building

Card 1/1

Pub. 58 - 9/17

Authors

: Ryvkin, P., Head of the City of Moscow Model-building Laboratory, V. Kumanin, Master of Sports.

Title

: What hinders the model-builders from developing their

skills?

Periodical

: Kryl. rod., 2, 17, F 1957

Abstract

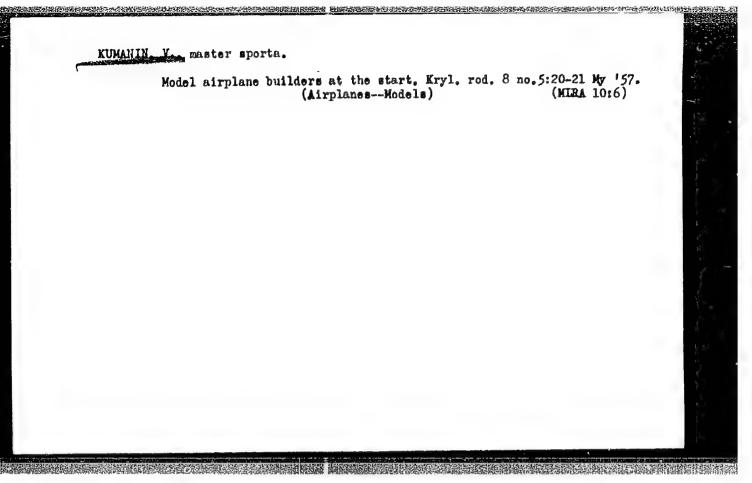
: An analysis of the causes of the Soviet model-building sportsmen lacking creative spirit in their approach to the problems of their sport. The necessity is stressed of a more systematic training of sportsmen interested in

model-building.

Institution:

None

Submitted : No date



KUMANIN, Vladimir Vladimirovich; YEFREMOVA, Ye.V., red.; KARYAKINA,
M.S., tekhm.red.

[Fuselage airplane models with rubber motors] Fiuzeliazhnye
modeli samoletov s resinovymi dvigateliami. Moskva, Izd-vo
DOSAAF, 1958. 71 p.

(Airplanes---Models)

sov/85-58-8-30/40

AUTHOR:

Kumanin, V., Master of Sports

TITLE:

Build Hydroplane Models! (Stroyte gidromodeli!)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 8, pp 25-26 (USSR)

ABSTRACT:

The author describes the essentials of building a hydroplane model.

There are 4 drawings.

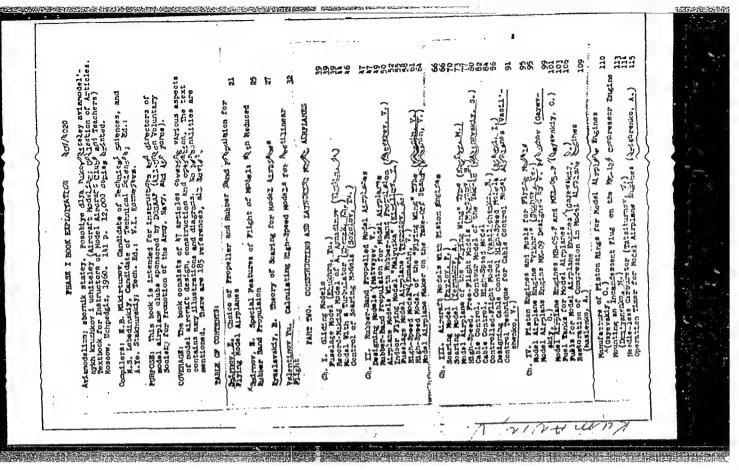
Card 1/1

现在,这些是企业的企业,但是不是的企业,可以不是一个人的企业,但是一个人的企业,但是一个人的企业,但是一个人的企业,但是一个人的企业,但是一个人的企业,这个人的

KUMANIN, Vladimir Vladimirovich; YEFREHOVA, Ye.V., red.; MARTYNOV, B.B., red.; KARYAKINA, M.S., tekhn.red.

[Regulating and launching flying models] Regulirovka i zapusk letaiushchikh modelei. Moskva, Izd-vo DOSAAF, 1959. 103 p. (MIRA 13:2)

(Airplanes--Models)



MAZNICHERKO, L., absolyutnaya chempionka Sovetskogo Soyuza po paraahyutnoma sportu, master sporta; KUMNIH, v., master sporta;
KARAPETYAN, G., sportsmen 1-go razryada.

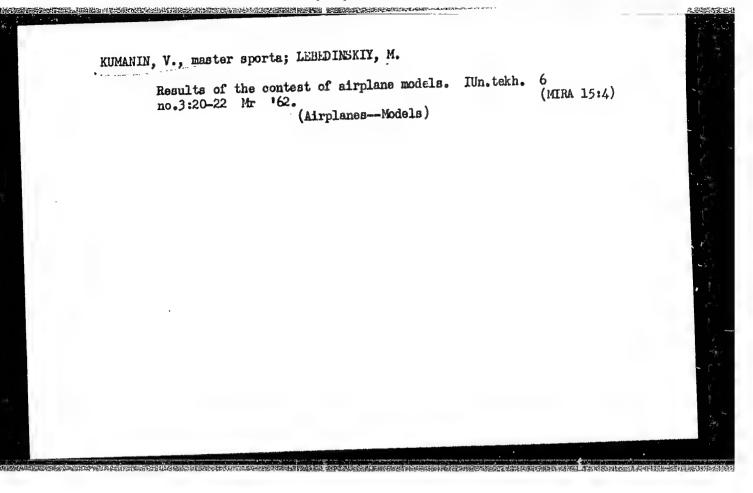
Learn how, teach others! Kryl.rod. 11 no.1:8 Ja '60.

(MRA 13:5)

(Aeronautics--Study and teaching)

Models of our club. Kryl.rod. 12 nc.9:Insert S :61. (MIRA 14:9)

(Airplanes -Models)



KUMANIN, Vladimir Vladimirovich, master sports SSSR; YEFREMOV, Ye.V,
red.; MUKHINA, Ye.S., tekhn. red.

[Airplane models with rubber motors]Modeli samoletov s rezinovymi dvigateliami. Moskva, Izd-vo DOSAAF, 1962. 92 p.

(Airplanes--Models)

(Airplanes--Models)

MESHKOVA, I.H.; KUMAN'KOVA, S.A.; ISVETKOVA, V.I.; CHIRKOV, N.M.

Kinetics and mechanism of the polymerization of ϕ -olefins on complex catalysts. Part 5: Kinetics of ethylene polymerization on TiCl₄ - Al(iso-C₄H₉)₂Cl. Vysokom.soed. 3 no.12:1816-1822 D *61.

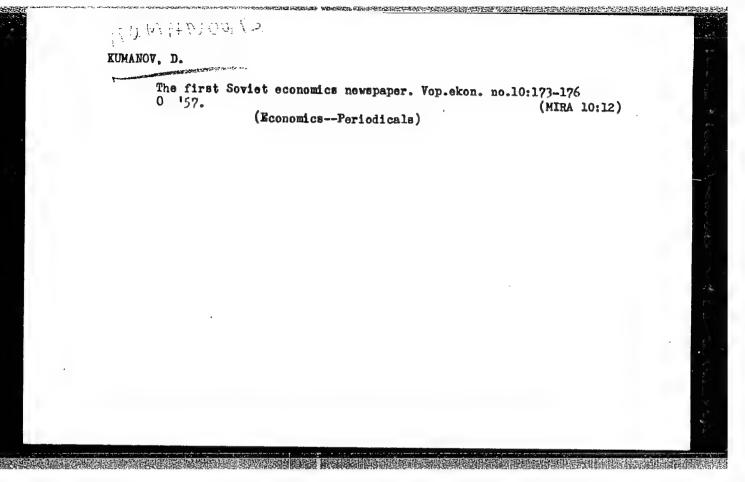
Institut khimicheskoy fiziki AN SSSR.
 (Ethylene) (Polymerization) (Catalysts)

KUMANOV, D.

Controllership

Actively help improve intra-departmental financial control. Sov. fin. 13, no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September, 1954 Uncl.



PALIEV, Khristo, KUMANLV, Kumon

Effect of Biovit-40, copper sulfate, and mic.calement mixture added to protein-deficient rations in pig fattening. Selskostop nauka 2 no.1:82-91 163.

ATAMASOV, N.; NIKOLOV, K.; KUMAHOV, Khr.

Kidney transplantation and our lat animal experiments. Khirurgiia (Sofiia) 18 no.42470-474 165.

1. Klinika po urologija, Visah meditsinski institut, Sofija, (direktor - dotsent St. Lambrev).

First editor of the first fire-prevention periodical. Pozh. delo 4 no.6:21 Je *58. (MIRA 11:5)

MUMANOV, h. For a greater development of emateur radio. p. 9.

Vol. 5, No. 3, 1956.

RLDIO
TECHNOLOU
Sofile, Eulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

KUMANOV, M.

The initiators presented themselves well. p. 18 RADIO. (Ministerstvo na poshtite, telegrafite, telefonite i radioto i Tsentralniia suvet na dobrovlnata organizatsiia za subeistvie na otbranata) Sofiya. Vol. 5, No. 4, 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

KUMANOV, M.

The Voluntary Civil Defense Organization helped us. p. 9. ZA RODINATA, Sofiya, Vol. 6, no. 4, Apr. 1956.

S7: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

KUMANOV, M.

Enthusiastic activity in the Plovdiv Radio Club. p.5. (RADIO I TELEVIZIIA, Vol. 6, no. 4, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

KUMANOV, S. KUHANOV, S.; CHESHEEDZHIEV, B.

"Comparative Experiments with Rams, Oxen, and Buffaloes in Order to Extablish the Digestibility and Nutritive Value of Field Hay, Wheat Straw, and a Vetch-Oats Mixture", p. 145, (IZVESTIIA, Vol. 3/4, 1952, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, IC, Vol. 3, No. 4, April 1954.

KUMANOV, S

KUMANOV, S.; VULCHEV, P.

"Studies on the Affect of Sunflower, Cotton, Long Radish, and Corn Pellets Upon the Egg Production of Hens," p. 249. (IZVESTIIA, Vol. 3/4, 1952, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954.

WINANOV, S.

"Present Conditions of Feeding Livestock in Bulgaria and Measures for its Improvement." p. 47, Izvestiia, Sofiya, Vol. 5, 1954

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

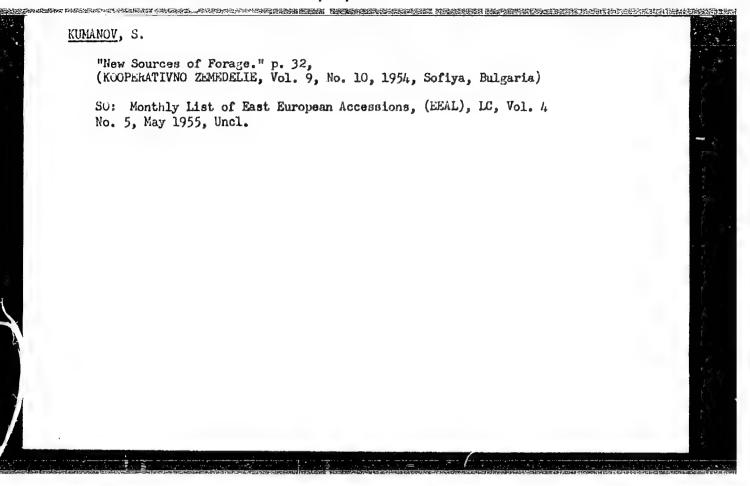
KUMANOV, S. "Preparing Forage During Winter." p. 18, (KOUPERATIVNO ZEMEDELIE, Vol. 9, No. 9, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

KUMANOV, S.

"With the Medalists of the V.I. Lenin Agricultural Cooperative in the Village of Kurtovo Konare." p. 20. (KOOPERATIVNO ZEMEDELIE, Vol. 9, No. 9, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.



DOMEST REPORT # Builgaria : Barn Animals, General Propiers. CLOSICOSY. ART. JOH. : REBIOL., No. 4, 1980, No. 16615 nor snow, St., Hir skillera, i.; Shebene . D. Woodechile I Feelly of 3. Monitor to Ligary of the States of the Sobaca Pleat as Follow LOSTIA T. 31. FIRES Jon Andreits. ORIG. PUB. Panchai w. Vissh. malshostop. in-t m. Indictor." Zootelder. fak., 1996. 6. 199-181. ABSTRACT Proceeding of John of a therical malysis and or periments of direstibility, the natricity Time of 100 kg silved tobacco plants equals 16 feed units. The dijestibility was deser-Lined in an experiment with two rams, -- . A. Sershteyn 1/1 CAAD: *Institute of Agriculture.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927520001-5"

KUMANOV, S.

KUMANOV, S. How many times are cows fed and milked a day? p. 28. Standard schedule for hand-feeding sucking calves. p. 29.
Vol. 11, no. 8, Aug. 1956
KOOP RATIVNO ZE EDELJE
AGRICULTU E
Sofiia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

YETHUOD'S

. BULGARIA

Cattle.

Farm Animals.

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ABS . JOUR.

: RZhBiol., No. 6,

1959. No. 25826

AUTHOR

: Kumanov, Stefan; Ivanov, Nicho; Nestorov,*

IRST.

. The Possibility of Increasing Milk Yields and

the Milk's Fat Content in Cows.

ORIG. PUB.

: Selsko-stop. mis'l, 1957, 2, No 10, 622-629

ABSTRACT

A review is presented which uses Soviet as well as Bulgarian experiences. The significance of such factors is stressed as the quantity and quality of fodder which increase milk yields and the percentage of fat, as well as the presence of such elements in feeds as Ca, P, K, S, Cl, Na, Ng, Fe, I, Cu, Mn, Co, and others, of vitamins A, C, D, and E, the presence of various enzymes which are imperative for the synthesis of fat and vegetotropic sub-

CARD:

1/2

*Nikola

KUMANOV, S.

Combined silages. p. 29. (KOOPERATIVNO ZEMEDELIE, No. 7, July 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

KUNANOV, Stotan

6430/15

Author: Prof Stefan Kumanov

Title: "Silage Corn - A Valuable Fodder"

Source: Sofia, Kooperativno Selo, 26 Apr 61, p.2

Description: Article gives data on total area sown to corn, Example including area sown to corn for grain and corn for silage and fodder; gives figures in decares on area to be put under cultivation by 1965; cites sialge production figures for 1950, 1958, 1960, and plans for 1961, gives substantive data on results of tests carried out in recent years in regard to corn cultivation exclusively for silage. /Exceppt/

KUMANOV, Stefan, prof.; TODORV, N.; Kadsteva, E.

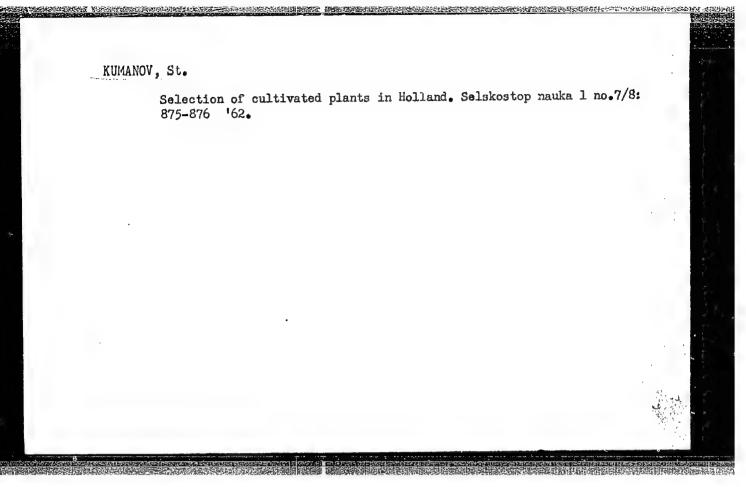
Conservation of the fresh alfalfa with dry chemical preparations.
Selskostop nauka 1 no.4/5:493-504 '62.

1. Vissh selskostopanski institut "G. Dimitrov" v Sofiia.

KUMANOV, Stefan, prof.; STOIANOV, Vladimir

Production and use of amidated beet slices. Selskostop nauka 1 no.6:649-664 '62.

1. Vissh selskostopanski institut "G. Dimitrov" v Sofiia.
2. Gl. redaktor, "Selskostopanska nauka".



KUMANOV, Stefan, prof.; ALEKSIEV, Aleksi

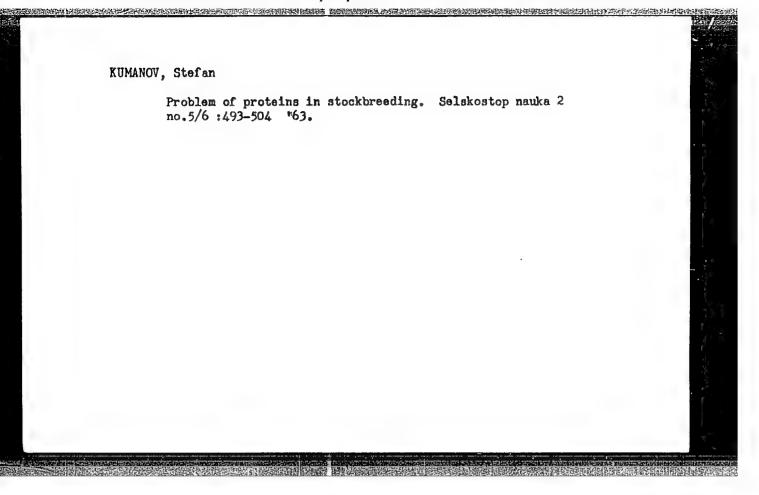
Digestibility of ground and whole grain rations for sheep and goats. Selskostop nauka 1 no.10:1125-1130 '62.

1. Vissh selskostopanski intitut "Georgi Dimitrov" v Sofia. 2. Chl.-kor. na Bulgarskata akademiia na naukite i gl. redaktor, "Selskostopanska nauka" (for Kumanov).

KUMANOV, Stefan, prof.

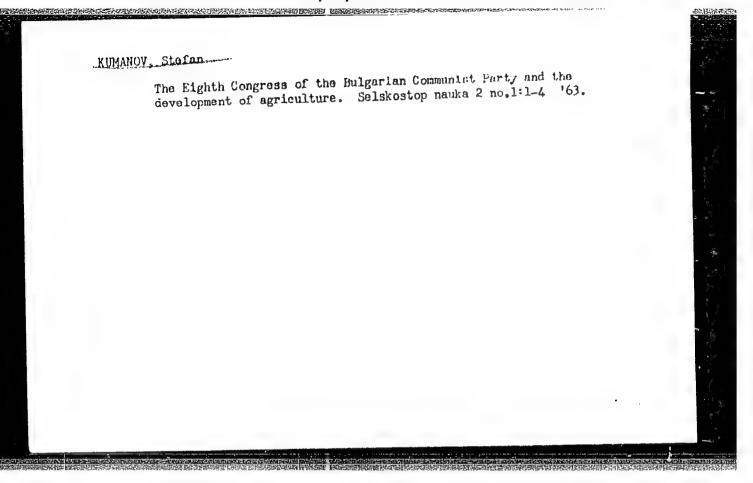
One-celled green algae as source of proteins. Selskostop nauka 1 no.10:1150 62.

1. Chlen-korespondent na Bulgarskata akademiia na naukite i gl. redaktor, "Selskostopanska nauka".



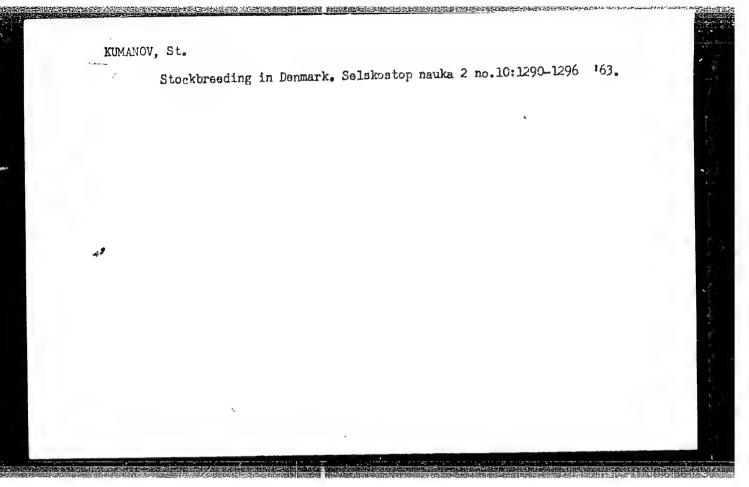
KUMANOV, Stefan; ALEKSIEV, Aleksi; KRUSTEVA, Elena

Studies on the use of ammonia water in livestock feeding. Selskostop nauka 2 no.81985-992 '63



KUMANOV, Stefan; ALEKSIEV, Aleksi

Composition and nutrient value of sweet sorghum silage.
Selekostop nauka 2 no.1:76-81 '63.



KUMANOV, Stefan; STOIANOV, Vladimir

Composition, digestibility, and nutrient value of feeding stuff for hens. Izv Zhivotn nauki 1 no.1:7-18 '64.

1. Zootechnical Faculty of the G. Dimitrov Higher Agricultural Institute, Sofia. 2. Responsible Editor and Member of the Board of Editors, "Izvestiia na Akademiiata na selskostopanskite nauki Zhivotnovudni nauki" (for Kumanov).

KUMANOV, Stefan; ANDREEV, Andrei

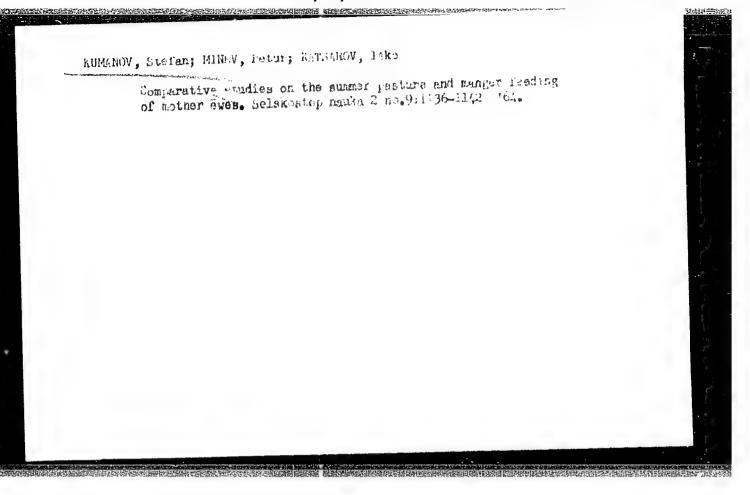
Molasses as feed in fattening pigs for meat. Izv Zhivotn nauki 1 no.2:35-41 64.

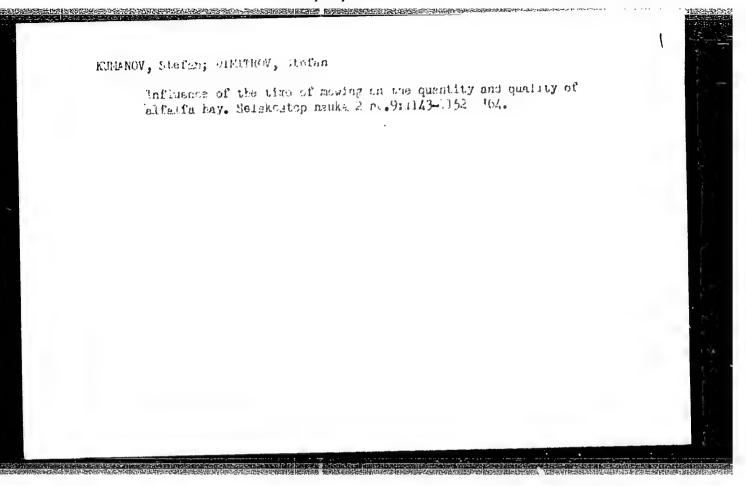
1. Zootechnical Faculty of the G. Dimitrov Higher Agricultural Institute, Sofia, Corresponding Member of the Bulgarian Academy of Sciences, and Chief Editor and Member of the Board of Editors, "Izvestiia nauki" (for Kumanov). 2. Institute of Animal Husbandry, Stara Zagora (for Andreev).

KUMANOV, Stefan; KHADZHIDIMITROV, Petur; KARAIVANOV, Rangel

Digostibility of whole and ground grain for horses. Izv
Zhivotn nauki 1 no.2:43-46 '64.

1. Zootechnical Faculty of the G. Dimitrov Higher Agricultural
Institute, Sofia.





KUMANOV, Stefan

Natural or controlled breeding of farm animals. Selskostop nauka 3 no. 1:19-34 '64.

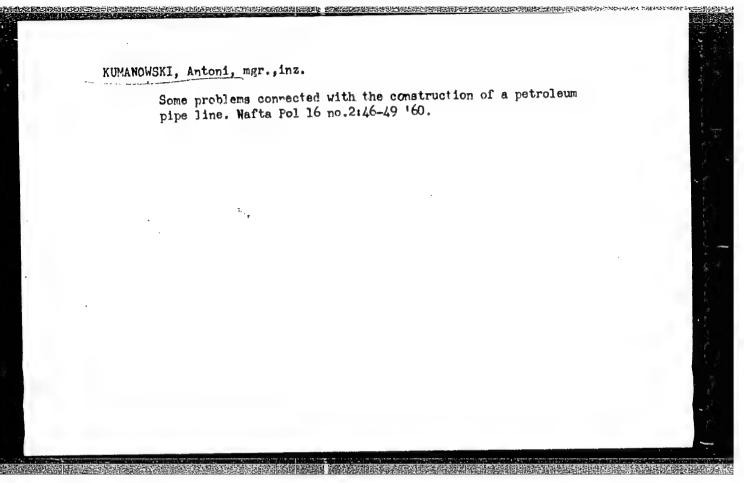
1. Corresponding Member of the Academy of Agricultural Sciences.

KUMANOVA, N.D.

[Hero of the Soviet Union Timur Mikhailovich Frunze] Geroi Sovetskogo Soiuza Timur Mikhailovich Frunze. Moskva, 1960. 13 p. (MIRA 14:2)

1. Moscow. TSentral'nyy muzey Sovetskoy Armii. 2. TSentral'nyy muzey Sovetskoy Armii (for Kumanova). (Frunze, Timur Mikhailovich, 1923-1942)

KUMANOWSKI, Antoni
Petroleum pipeline. Wiadom gorn 10 no. 12:427-429 D 159.



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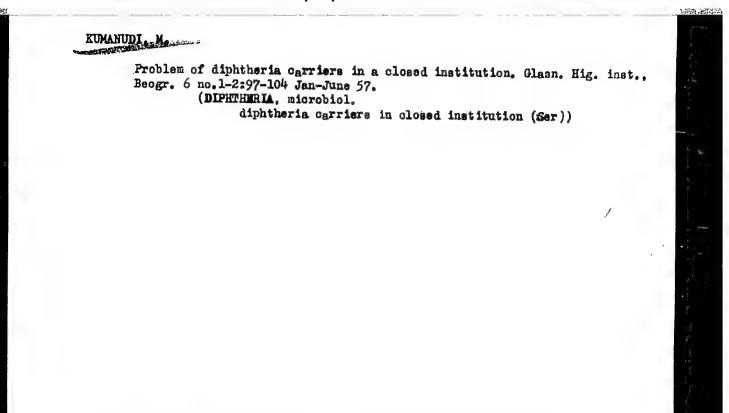
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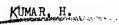
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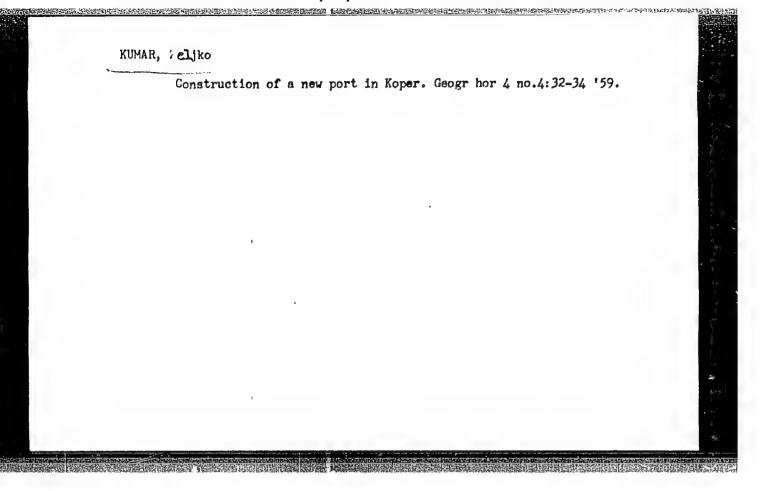
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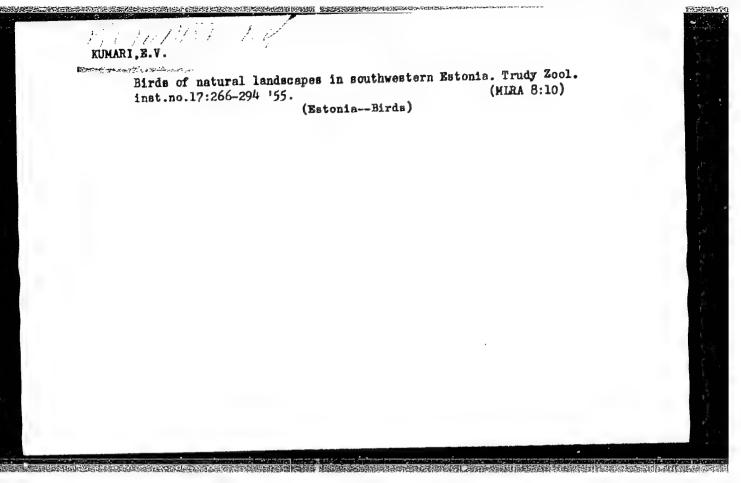
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Inst

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Title

: The Bird Sanctuary of Matsalu

Orig Pub

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: The ornithological game sanctuary of Matsalu (Estonia) was instituted in 1954. Observations in the sanctuary have resumed on water birds, and ring marking is being carried out. An epidemiological study of the colony of common sea-gulls has begun. Preparations are being made to make a national park out of the sanctuary.

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